

Title (en)  
Oxy-fuel rotary kiln hearth melting furnace

Title (de)  
Sauerstoff-Brennstoff Drehrohr-Herd-Schmelzofen

Title (fr)  
Four rotatif/four à sole à fusion chauffé par oxy-combustible

Publication  
**EP 0754767 A1 19970122 (EN)**

Application  
**EP 96305254 A 19960717**

Priority  
GB 9515080 A 19950721

Abstract (en)  
An oxy:fuel melting furnace (2) comprising a rotatable furnace body (4), a normally stationary non-rotatable furnace roof (6) for fitting on the furnace body (4), dynamic sealing means (8) for dynamically sealing the furnace roof (6) on the furnace body (4) such that the furnace body (4) can rotate with respect to the furnace roof (6), tiltable support means (10) for supporting the furnace body (4) such that tilting of the support means (10) causes tilting of the furnace body (4) for tapping and slagging, moving means for moving the furnace roof (6) up and down with respect to the furnace body (4), heating means (12) which is mounted on the furnace roof (6) and which is for providing heat for the melting of material such as scrap steel and ore, and pre-heater means (14) for pre-heating the material prior to its introduction into the furnace body (4), and the oxy:fuel melting furnace being such that at least one of the heating means and the pre-heating means is such that it burns oxy:fuel. <IMAGE>

IPC 1-7  
**C21C 5/56**; **C21B 13/14**; **F27B 19/02**

IPC 8 full level  
**C21B 13/14** (2006.01); **C21C 5/56** (2006.01); **F27B 19/02** (2006.01)

CPC (source: EP US)  
**C21B 13/14** (2013.01 - EP US); **C21C 5/565** (2013.01 - EP US); **F27B 19/02** (2013.01 - EP US); **Y02P 10/20** (2015.11 - EP US)

Citation (search report)  
• [Y] GB 1362167 A 19740730 - CERETTI IND SPA  
• [Y] US 2526658 A 19501024 - HARMAN EUGENE S, et al  
• [A] DE 2018696 A1 19711028 - KOLLAKOWSKI W  
• [A] US 4032121 A 19770628 - STIFT KURT, et al  
• [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 096 (C - 278) 25 April 1985 (1985-04-25)

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DOCDB simple family (publication)  
**EP 0754767 A1 19970122**; **EP 0754767 B1 20000315**; AT E190670 T1 20000415; DE 69607078 D1 20000420; GB 2303690 A 19970226; GB 2303690 B 19990526; GB 9515080 D0 19950920; US 5883918 A 19990316

DOCDB simple family (application)  
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